1st Workshop for APEC Initiatives for Enhancing Quality of Electric Power Infrastructure Development

Tokyo, Japan 25 – 26 August 2015

PHILIPPINES

PHL Department of Energy





PHILIPPINES At a Glance…

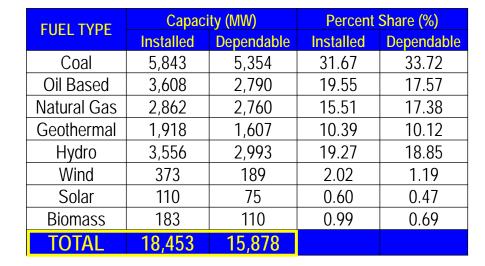
LUZON

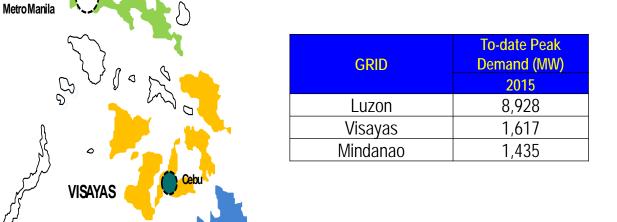
Ωo

Capacities (13,524 MW) are concentrated in the North (≈44%) and South Luzon (≈53%), while load center is in Metro Manila (MERALCO @ >70%)

Capacities (2,692MW) are concentrated in Cebu (Coal ≈ 24%) and Leyte-Samar (Geothermal ≈ 27%) Sub-Grid; Cebu is 50% of demand

Highly dependent on water levels of Agus and Pulangi rivers (≈44%), while most of the capacities (2,237 MW) are located in the north (59%).





Davao

MINDANAO

Note: Transparent islands in the above diagram are not covered by NGCP's network.



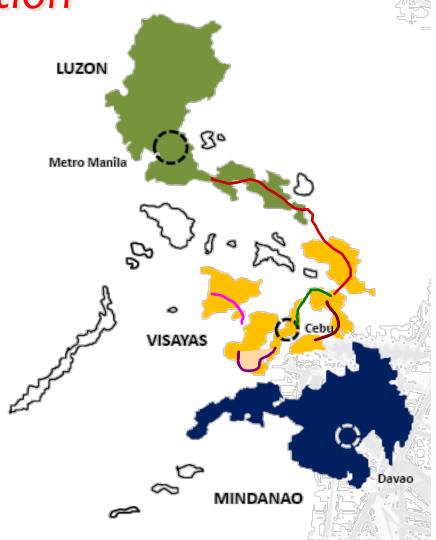
Source: DOE List of Existing Power Plants, 30 June 2015 NGCP Daily Operations Report (DOR)

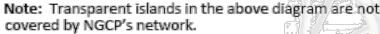
PHILIPPINES Island Grids Interconnection

Interconnection Line Capacity

- Leyte-Luzon (440 MW)
- Leyte-Cebu (400 MW)
- Cebu-Negros (200 MW)
- Negros Panay (100 MW)
- Leyte-Bohol (100 MW)

Mindanao is not yet connected with Luzon and Visayas







PHILIPPINES

Current Challenges and Actions Needed

Climate Change Mitigation

• To promote the use of clean technology

Economic Growth and Development

 To meet future demand for electricity at affordable/reasonable rates

Energy Supply Security

- To diversify sources of fuel and technologies
- To conserve and manage current and future demand

Power Grid Development

- To integrate Renewable Energy sources
- To foster competition in the generation and supply sectors through provision of stable, reliable and robust transmission and distribution systems



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